

Service Hints



TC-P54Z1

Plasma Television

<PDP 2009 Model>

TC-P54Z1

TC-P54/50V10

TC-P50/46/42G15

TC-P54/50/46/42G10

TC-P54/50/46/42S1

TC-P50/46/42U1

- Ver 1.0-

Troubleshooting Guide

This service hint is published for technicians and engineers for repair. And it gives you the information how to judge the defective board of PDP. In the future, we will improve the contents for more easy diagnostic and trouble shooting.

Please file and use this Service Hints together with the main service manual and other publications related to models.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.







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1. 2009 PDP Line up & Feature Comparison (Full HD model)

1. 2009 PDP Line up & Feature Comparison

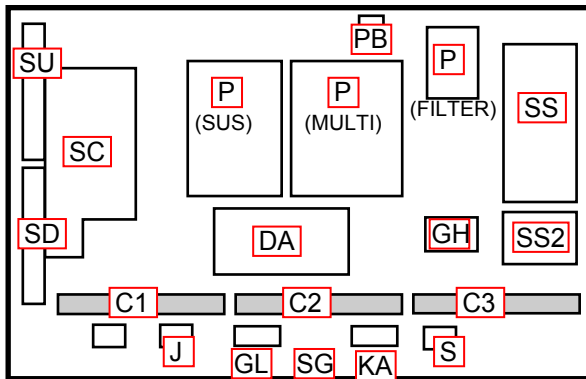
		Z1 Series	V10 Series	G15 Series	G10 Series	S1 Series	U1 Series
							
Picture	Size	54	54/50	50/46/42	54/50/46/42	54/50/46/42	50/46/42
	Panel	1080p HD NeoPDP	1080p HD NeoPDP	1080p HD NeoPDP	1080p HD NeoPDP	1080p HD NeoPDP	1080P HD
	Screen Coating (Filter)	New Louver Filter	New AR Filter	New AR Filter	New AR Filter	New AR Filter	---
	Gradation	6,144	6,144	6,144	6,144	6,144	5,120
	Contrast Ratio	40,000:1	40,000:1	40,000:1	40,000:1	40,000:1	30,000:1
	Moving Picture Resolution	1080 lines	1080 lines	1080 lines	1080 lines	1080 lines	900 lines
	600 Hz Sub-field Drive	Y	Y	Y	Y	Y	Y
	x.v. Colour	Y	Y	Y	Y	---	---
	24p Cinematic Playback	Y	Y	---	---	---	---
	THX Mode	Y	Y	Y	---	---	---
	Digital Cinema Colour	---	Y	---	---	---	---
	Deep Color	Y	Y	Y	Y	Y	Y
	Advanced 3D Colour Management	Y	Y	Y	Y	---	---
	Motion Pattern Noise Reduction	Y	Y	Y	Y	Y	Y
	Sub Pixel Control	Y	Y	Y	Y	---	---
Sound	Speaker	Woofer/Tweeter	Full-range	Full-range	Full-range	Full-range	Full-range
	BBE VIVA	Y	Y	---	---	---	---
Networking	HDMI	4+1(Output)	4	3	3	3	2
	VIERA Link	Y (with Network Camera)	Y (with Network Camera)	Y (with Network Camera)	Y (with Network Camera)	Y	Y
	VIERA CAST (IPTV)	Y	Y	Y	Y	---	---
	VIERA Image Viewer	AVCHD/MPEG2 /JPEG playback	AVCHD/MPEG2 /JPEG playback	AVCHD/MPEG2 /JPEG playback	AVCHD/MPEG2 /JPEG playback	JPEG playback	JPEG playback
	Game Mode	Y	Y	Y	Y	Y	---
	PC Input	Y	Y	Y	Y	---	---

2. PCB Location & Function (Full HD model)

2. PCB Location & Function

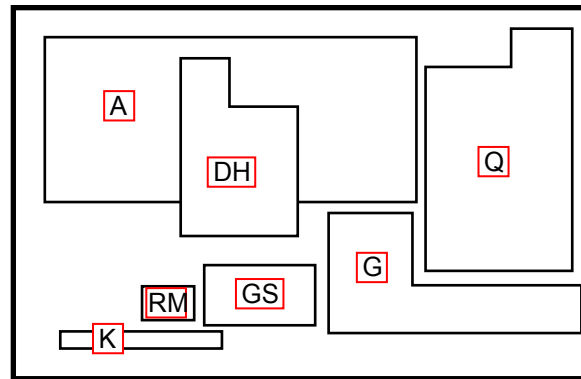
TC-P54Z1

TC-P54Z1M (Display unit)



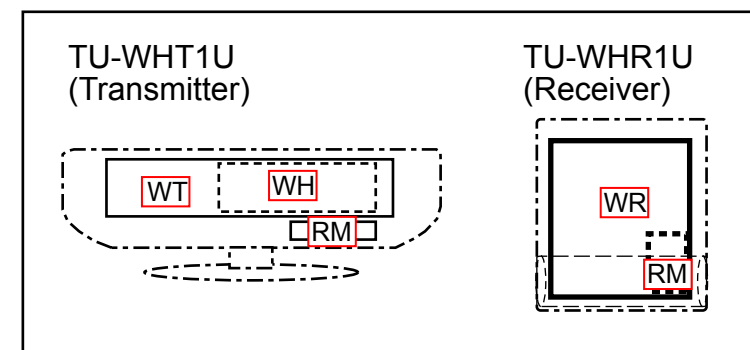
Board Name	Function	Part Number
P	Power Supply (SUS)	XMM718AAS
	Power Supply (MULTI)	XMM718ABS
	Power Supply (FILTER)	XMM718ACS
DA	Digital Signal Processor	TZTNP01DKUU
GH	HDMI in	TXNGH1DKUU
PB	Fan control	TNPA4864AC
S	Power Switch	TNPA4863
KA	Remote receiver, Power LED, C.A.T.S sensor	TNPA4862
SG	SD Card Slot	TNPA4860AB
GL	SD Blue LED	TNPA4693AF
J	Connection for Key Switch	TNPA4944
C1	Data Driver (Lower Right)	TNPA4770AC
C2	Data Driver (Lower Center)	TNPA4771AC
C3	Data Driver (Lower Left)	TNPA4772AC
SC	Scan Drive	TNPA4840AD
SS	Sustain Drive	TNPA4841AD
SS2	Sustain connector (Lower)	TNPA4843
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4790AB
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4791AB

TU-Z100U (Tuner Box)



Board Name	Function	Part Number
Q	Power Supply Non-serviceable. Q-Board should be exchanged for service.	N0AB2FF00002
A	Digital Signal Processor	TZTNP02DKUU
DH	HDMI out	TXNDH1DKUU
G	Front Terminal	TXN/G1DKUU
GS	SD Card Slot, HDMI4 in	TXNGS1DKUU
K	Power Switch, Key Switch, Power LED, SD LED	TNPA4869AB
RM	RF in Non-serviceable. RM-Board should be exchanged for service.	TNPA4870

TU-WH1U (Wireless unit)



Wireless unit (Transmitter)		
Board Name	Function	Part Number
WT	WiHD Transmitter	—
WH	WiHD Host	—
RM	RF Tx	TXNRM1JSUJ

Wireless unit (Receiver)		
Board Name	Function	Part Number
WR	WiHD Receiver	—
RM	RF Rx	TXNRM2JSUJ

Caution

Non-serviceable.

P. C. B. should be exchanged for service.

WT board (in a transmitter), WH board (in a transmitter) and WR board (in a receiver) should be exchanged at the same time for repair because these boards are initialized security settings in a factory in order to obey a copyright protection.

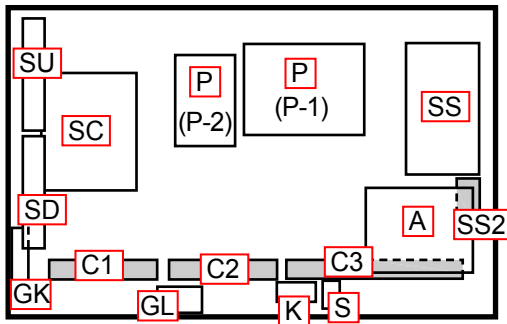
Repair of these three boards should be done by replacing complete unit pair

(TRANSMISSION/RECEIVE UNIT, Part No.TZTWH01JSUU).

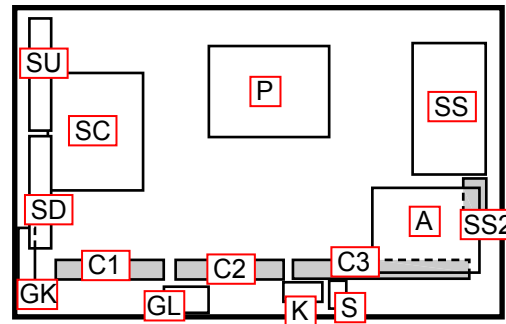
2. PCB Location & Function

V10 Series

TC-P54V10



TC-P50V10



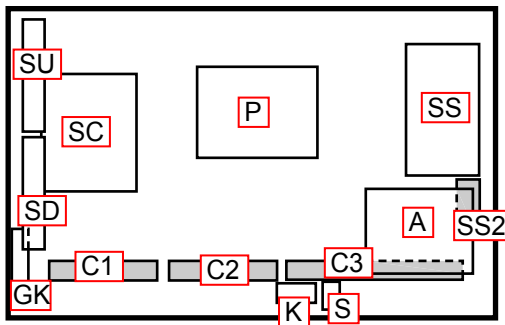
Board Name	Function	Part Number
P	Power Supply	ETX2MM761MGN
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DQUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4872S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
GL	SD blue LED	TNPA4693AES
C1	Data Driver (Lower Right)	TXNC11ECUU
C2	Data Driver (Lower Center)	TXNC21ECUU
C3	Data Driver (Lower Left)	TXNC31ECUU
SC	Scan Drive	TXNSC1DQUU
SS	Sustain Drive	TXNSS1DQUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TXNSU1ECUU
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TXNSD1ECUU

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DRUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4872S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
GL	SD blue LED	TNPA4693AES
C1	Data Driver (Lower Right)	TXNC11EDUU
C2	Data Driver (Lower Center)	TXNC21EDUU
C3	Data Driver (Lower Left)	TXNC31EDUU
SC	Scan Drive	TXNSC1DRUU
SS	Sustain Drive	TXNSS1DRUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TNPA4788
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TNPA4789

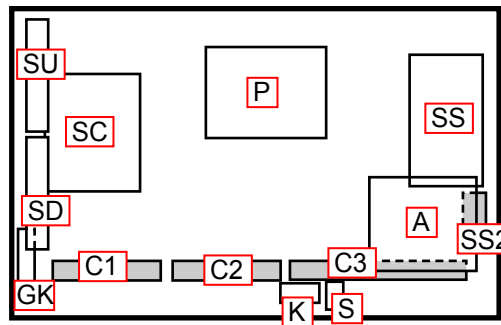
2. PCB Location & Function

G15 Series

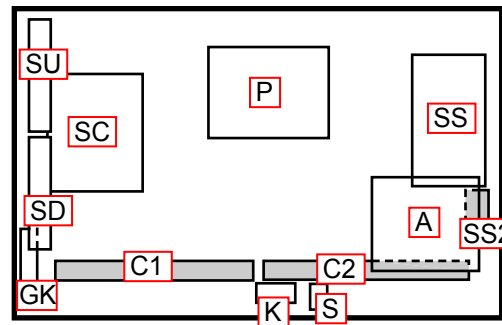
TC-P50G15



TC-P46G15



TC-P42G15



Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1FFUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EDUU
C2	Data Driver (Lower Center)	TXNC21EDUU
C3	Data Driver (Lower Left)	TXNC31EDUU
SC	Scan Drive	TXNSC1DRUU
SS	Sustain Drive	TXNSS1DRUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4788
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4789

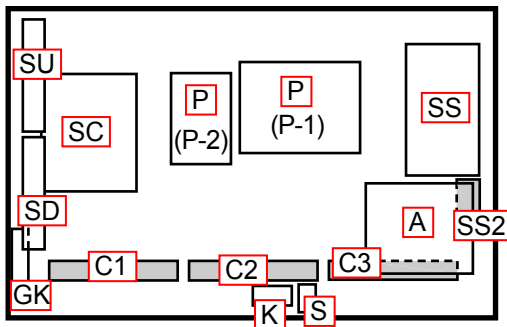
Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1FGUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11DXUC
C2	Data Driver (Lower Center)	TXNC21DXUC
C3	Data Driver (Lower Left)	TXNC31DXUC
SC	Scan Drive	TXNSC1DXUE
SS	Sustain Drive	TXNSS1DXUE
SS2	Sustain out (Lower)	TXNSS21DYUC
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4786
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4787

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFF
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1FHUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EFUU
C2	Data Driver (Lower Left)	TXNC21EFUU
SC	Scan Drive	TXNSC1FHUU
SS	Sustain Drive	TXNSS1FHUU
SS2	Sustain out (Lower)	TNPA4802S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4784
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4785

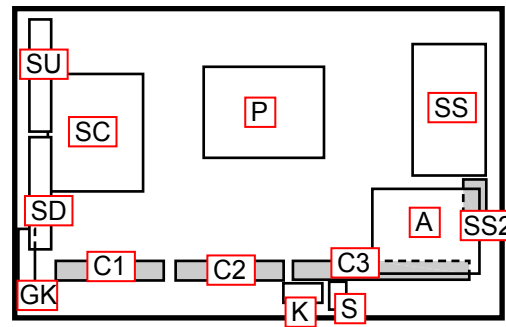
2. PCB Location & Function

G10 Series

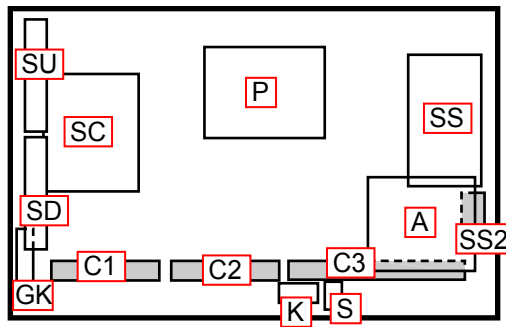
TC-P54G10



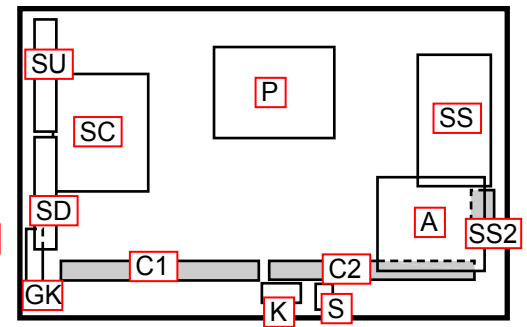
TC-P50G10



TC-P46G10



TC-P42G10



Board Name	Function	Part Number
P	Power Supply	ETX2MM761MGN
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DVUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11ECUU
C2	Data Driver (Lower Center)	TXNC21ECUU
C3	Data Driver (Lower Left)	TXNC31ECUU
SC	Scan Drive	TXNSC1ECUU
SS	Sustain Drive	TXNSS1ECUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TXNSU1ECUU
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TXNSD1ECUU

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DWUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EDUU
C2	Data Driver (Lower Center)	TXNC21EDUU
C3	Data Driver (Lower Left)	TXNC31EDUU
SC	Scan Drive	TXNSC1EDUU
SS	Sustain Drive	TXNSS1EDUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TNPA4788
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TNPA4789

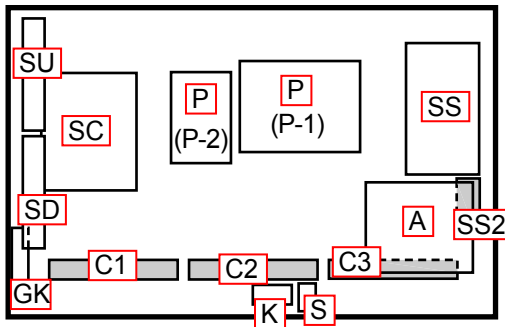
Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DXUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11DXUC
C2	Data Driver (Lower Center)	TXNC21DXUC
C3	Data Driver (Lower Left)	TXNC31DXUC
SC	Scan Drive	TXNSC1DXUC
SS	Sustain Drive	TXNSS1DXUC
SS2	Sustain out (Lower)	TXNSS21DYUC
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TNPA4786
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TNPA4787

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFF
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Peaks-AVC, Ethernet, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1DYUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EFUU
C2	Data Driver (Lower Left)	TXNC21EFUU
SC	Scan Drive	TXNSC1EFUU
SS	Sustain Drive	TXNSS1EFUU
SS2	Sustain out (Lower)	TNPA4802S
SU	Scan out (Upper) Non-serviceable. SU-Board should be exchanged for service.	TNPA4784
SD	Scan out (Lower) Non-serviceable. SD-Board should be exchanged for service.	TNPA4785

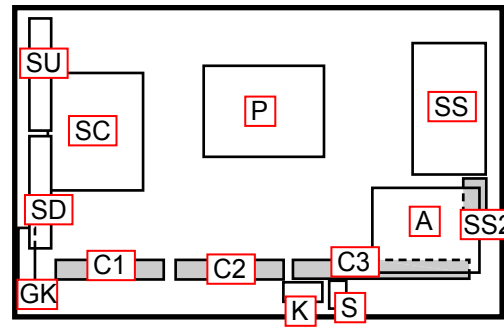
2. PCB Location & Function

S1 Series

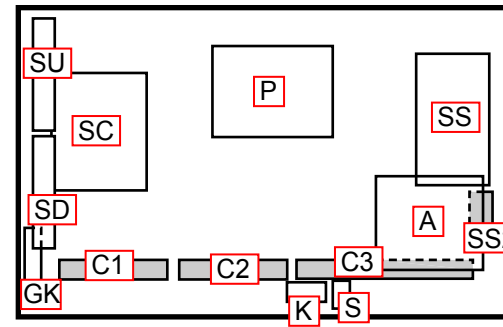
TC-P54S1



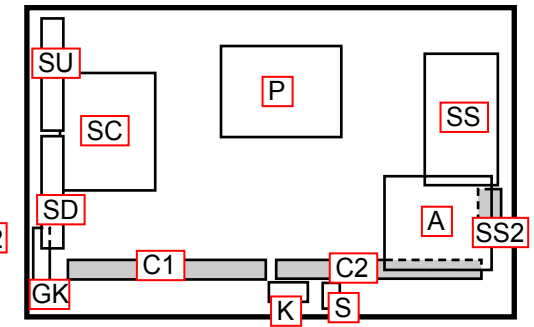
TC-P50S1



TC-P46S1



TC-P42S1



Board Name	Function	Part Number
P	Power Supply	ETX2MM761MGN
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1ECUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11ECUU
C2	Data Driver (Lower Center)	TXNC21ECUU
C3	Data Driver (Lower Left)	TXNC31ECUU
SC	Scan Drive	TXNSC1ECUU
SS	Sustain Drive	TXNSS1ECUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TXNSU1ECUU
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TXNSD1ECUU

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EDUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EDUU
C2	Data Driver (Lower Center)	TXNC21EDUU
C3	Data Driver (Lower Left)	TXNC31EDUU
SC	Scan Drive	TXNSC1EDUU
SS	Sustain Drive	TXNSS1EDUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4788
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4789

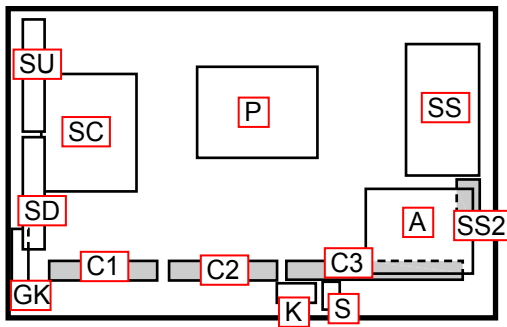
Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EEUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11DXUC
C2	Data Driver (Lower Center)	TXNC21DXUC
C3	Data Driver (Lower Left)	TXNC31DXUC
SC	Scan Drive	TXNSC1DXUC
SS	Sustain Drive	TXNSS1DXUC
SS2	Sustain out (Lower)	TXNSS21DYUC
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4786
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4787

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFK
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EFUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EFUU
C2	Data Driver (Lower Left)	TXNC21EFUU
SC	Scan Drive	TXNSC1EFUU
SS	Sustain Drive	TXNSS1EFUU
SS2	Sustain out (Lower)	TNPA4802S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4784
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4785

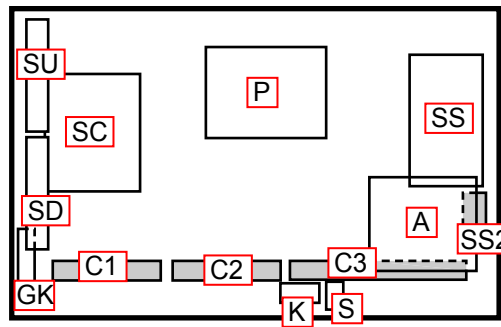
2. PCB Location & Function

U1 Series

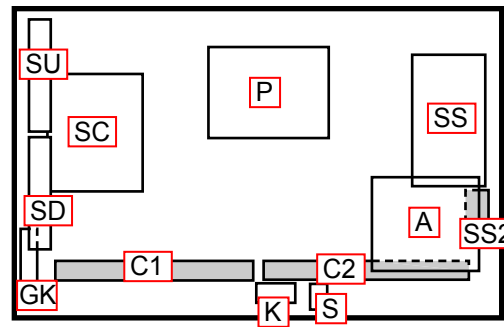
TC-P50U1



TC-P46U1



TC-P42U1



Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFG
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EHUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EDUU
C2	Data Driver (Lower Center)	TXNC21EDUU
C3	Data Driver (Lower Left)	TXNC31EDUU
SC	Scan Drive	TXNSC1EHUU
SS	Sustain Drive	TXNSS1EHUU
SS2	Sustain out (Lower)	TNPA4804S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TXNSU1EHUU
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TXNSD1EHUU

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFG
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EJUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11DXUC
C2	Data Driver (Lower Center)	TXNC21DXUC
C3	Data Driver (Lower Left)	TXNC31DXUC
SC	Scan Drive	TXNSC1EEUC
SS	Sustain Drive	TXNSS1EEUC
SS2	Sustain out (Lower)	TXNSS21DYUC
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TXNSU1EEUC
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TXNSD1EEUC

Board Name	Function	Part Number
P	Power Supply	ETX2MM747AFE
A	DC-DC Converter, Tuner, Speaker out, PC, AV Terminal, AV Switch, Digital Signal Processor, SYSTEM MPU, HDMI Switch, Seine 3LV, Format Converter, Plasma AI, Sub-Field Processor	TXN/A1EKUUS
K	Remote receiver, Power LED, C.A.T.S sensor	TNPA4871S
S	Power Switch	TNPA4873S
GK	Key Switch	TNPA4874S
C1	Data Driver (Lower Right)	TXNC11EFUU
C2	Data Driver (Lower Left)	TXNC21EFUU
SC	Scan Drive	TXNSC1EKUU
SS	Sustain Drive	TXNSS1EKUU
SS2	Sustain out (Lower)	TNPA4802S
SU	Scan out (Upper), Non-serviceable. SU-Board should be exchanged for service.	TNPA4784
SD	Scan out (Lower), Non-serviceable. SD-Board should be exchanged for service.	TNPA4785

3. PCB List (Full HD model)

3. PCB List

(except TC-P54Z1)

	V10 series		G15 series			G10 series				S1 series				U1 series		
Board	TC-P54V10	TC-P50V10	TC-P50G15	TC-P46G15	TC-P42G15	TC-P54G10	TC-P50G10	TC-P46G10	TC-P42G10	TC-P54S1	TC-P50S1	TC-P46S1	TC-P42S1	TC-P50U1	TC-P46U1	TC-P42U1
P	ETX2MM761MGN	ETX2MM747AFK	ETX2MM747AFK	ETX2MM747AFK	ETX2MM747AFF	ETX2MM761MGN	ETX2MM747AFK	ETX2MM747AFK	ETX2MM747AFF	ETX2MM761MGN	ETX2MM747AFK	ETX2MM747AFK	ETX2MM747AFF	ETX2MM747AFG	ETX2MM747AFG	ETX2MM747AFE
A	TXN/A1DQUUS	TXN/A1DRUUS	TXN/A1FFUUS	TXN/A1FGUUS	TXN/A1FHUUS	TXN/A1DVUUS	TXN/A1DWUUS	TXN/A1DXUUS	TXN/A1DYUUS	TXN/A1ECUUS	TXN/A1EDUUS	TXN/A1EEUUS	TXN/A1EFUUS	TXN/A1EHUUS	TXN/A1EJUUS	TXN/A1EKUUS
K	TNPA4872S	TNPA4872S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S	TNPA4871S
S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S	TNPA4873S
GK	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S	TNPA4874S
GL	TNPA4693AES	TNPA4693AES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C1	TXNC11ECUU	TXNC11EDUU	TXNC11EDUU	TXNC11DXUC	TXNC11EFUU	TXNC11ECUU	TXNC11EDUU	TXNC11DXUC	TXNC11EFUU	TXNC11ECUU	TXNC11EDUU	TXNC11DXUC	TXNC11EFUU	TXNC11EDUU	TXNC11DXUC	TXNC11EFUU
C2	TXNC21ECUU	TXNC21EDUU	TXNC21EDUU	TXNC21DXUC	TXNC21EFUU	TXNC21ECUU	TXNC21EDUU	TXNC21DXUC	TXNC21EFUU	TXNC21ECUU	TXNC21EDUU	TXNC21DXUC	TXNC21EFUU	TXNC21EDUU	TXNC21DXUC	TXNC21EFUU
C3	TXNC31ECUU	TXNC31EDUU	TXNC31EDUU	TXNC31DXUC	----	TXNC31ECUU	TXNC31EDUU	TXNC31DXUC	----	TXNC31ECUU	TXNC31EDUU	TXNC31DXUC	----	TXNC31EDUU	TXNC31DXUC	----
SC	TXNSC1DQUU	TXNSC1DRUU	TXNSC1DRUU	TXNSC1DXUE	TXNSC1FHUU	TXNSC1ECUU	TXNSC1EDUU	TXNSC1DXUC	TXNSC1EFUU	TXNSC1ECUU	TXNSC1EDUU	TXNSC1DXUC	TXNSC1EFUU	TXNSC1EHUU	TXNSC1EEUC	TXNSC1EKUU
SS	TXNSS1DQUU	TXNSS1DRUU	TXNSS1DRUU	TXNSS1DXUE	TXNSS1FHUU	TXNSS1ECUU	TXNSS1EDUU	TXNSS1DXUC	TXNSS1EFUU	TXNSS1ECUU	TXNSS1EDUU	TXNSS1DXUC	TXNSS1EFUU	TXNSS1EHUU	TXNSS1EEUC	TXNSS1EKUU
SS2	TNPA4804S	TNPA4804S	TNPA4804S	TXNSS21DYUC	TNPA4802S	TNPA4804S	TNPA4804S	TXNSS21DYUC	TNPA4802S	TNPA4804S	TNPA4804S	TXNSS21DYUC	TNPA4802S	TNPA4804S	TXNSS21DYUC	TNPA4802S
SU	TXNSU1ECUU	TNPA4788	TNPA4788	TNPA4786	TNPA4784	TXNSU1ECUU	TNPA4788	TNPA4786	TNPA4784	TXNSU1ECUU	TNPA4788	TNPA4786	TNPA4784	TXNSU1EHUU	TXNSU1EEUC	TNPA4784
SD	TXNSD1ECUU	TNPA4789	TNPA4789	TNPA4787	TNPA4785	TXNSD1ECUU	TNPA4789	TNPA4787	TNPA4785	TXNSD1ECUU	TNPA4789	TNPA4787	TNPA4785	TXNSD1EHUU	TXNSD1EEUC	TNPA4785

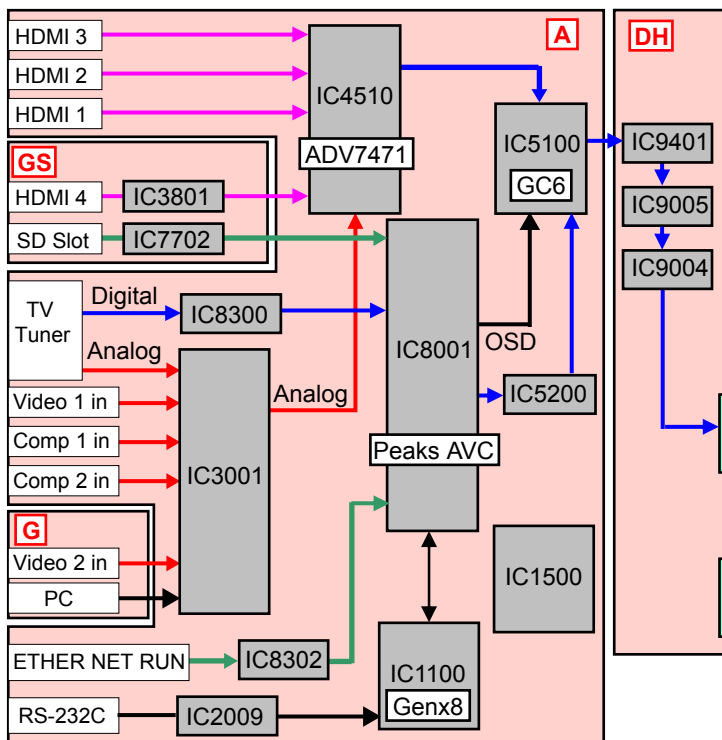
4. Block Diagram (Full HD model)

4. Block Diagram

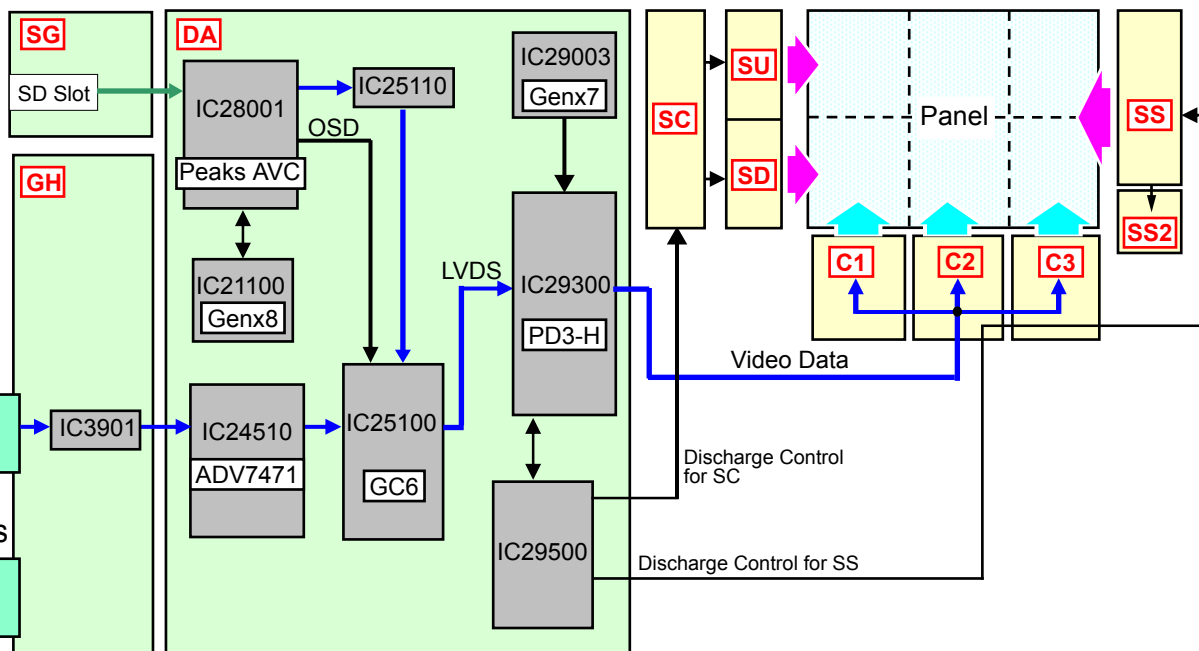
Signal Processing Circuit (1) TH-P54Z1

<PCB Function>

[Tuner box]



[Display unit]



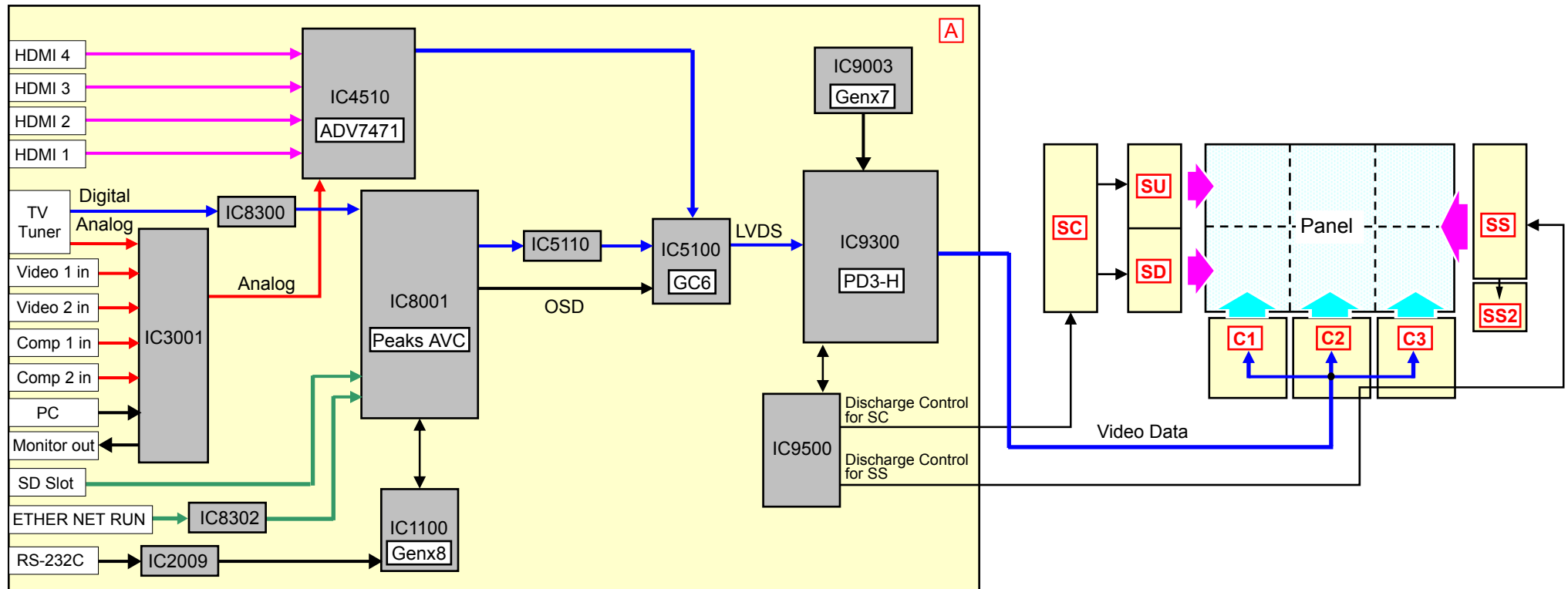
IC3001 : Video Switch (Audio Switch)	IC4510 : ADV7471 (HDMI I/F, 10bit A/D)	IC9401 : LVDS RX
IC8302 : ETHER NET I/F	IC8300 : Front End Processor	IC9005 : KYOTO
IC2009 : RS-232C Driver	IC8001 : Peaks AVC (Digital Video Processor)	IC9004 : LVDS TX
IC3801 : HDMI EQUALIZER	IC5100 : GC6	
IC7702 : SD-USB CONV.	[Video Processor IC (Format Converter) LVDS Transmitter]	
	IC5200 : LVDS RX	
	IC1100 : Genx8 (SYSTEM MPU)	

IC3901 : HDMI EQUALIZER	IC29300 : PD3-H
IC24510 : ADV7471 (HDMI I/F, 10bit A/D)	[LVDS Receiver, Sub Field Processor, Data Driver Processor Plasma AI]
IC25100 : GC6	
Video Processor IC (Format Converter) LVDS Transmitter	
IC28001 : Peaks AVC (Digital Video Processor)	IC29500 : FPGA (Discharge Control)
IC25110 : LVDS RX	IC29003 : Genx7 (Panel Micom)
IC21100 : Genx8 (SYSTEM MPU)	

4. Block Diagram

Signal Processing Circuit (2) TH-P54V10

<PCB Function>



IC3001

: Video Switch
(Audio Switch)

IC8300

: Front End Processor

IC8302

: ETHER NET I/F

IC2009

: RS-232C Driver

IC4510

: ADV7471 (HDMI I/F, 10bit A/D)

IC8001

: Peaks AVC (Digital Video Processor)

IC5110

: LVDS RX

IC5100

: GC6

Video Processor IC (Format Converter)
LVDS Transmitter

IC1100

: Genx8 (SYSTEM MPU)

IC9300

: PD3-H

LVDS Receiver,
Sub Field Processor,
Data Driver Processor
Plasma AI

IC9500

: FPGA (Discharge Control)

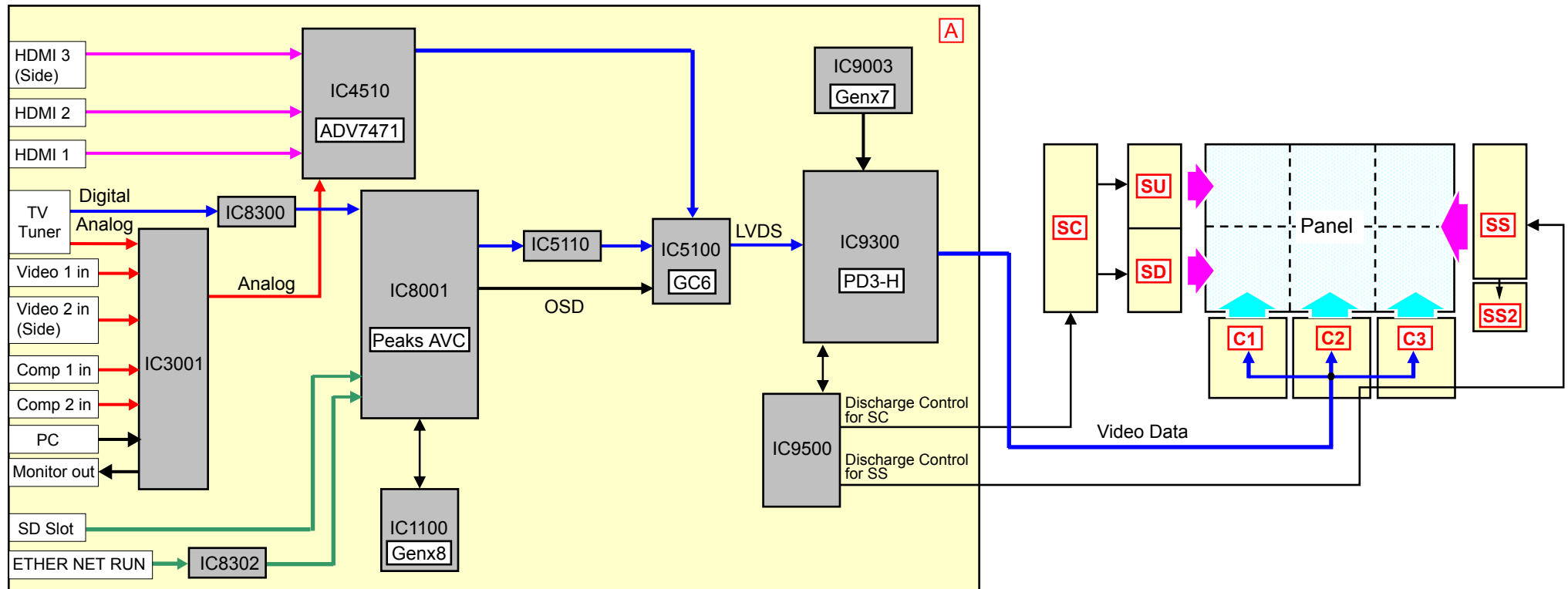
IC9003

: Genx7 (Panel Micom)

4. Block Diagram

Signal Processing Circuit (3) TH-P50G15/G10

<PCB Function>



IC3001

: Video Switch
(Audio Switch)

IC8300

: Front End Processor

IC8302

: ETHER NET I/F

IC4510

: ADV7471 (HDMI I/F, 10bit A/D)

IC8001

: Peaks AVC (Digital Video Processor)

IC5110

: LVDS RX

IC5100

: GC6

Video Processor IC (Format Converter)
LVDS Transmitter

IC1100

: Genx8 (SYSTEM MPU)

IC9300

: PD3-H

LVDS Receiver,
Sub Field Processor,
Data Driver Processor
Plasma AI

IC9500

: FPGA (Discharge Control)

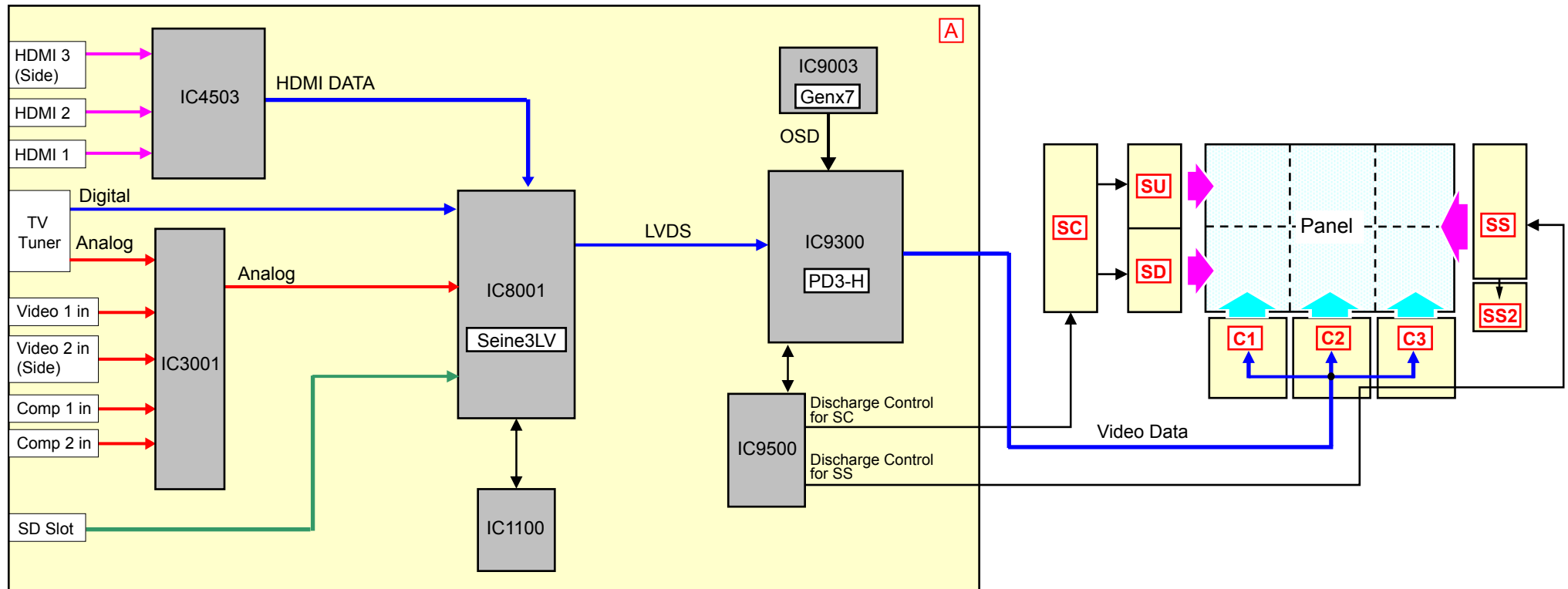
IC9003

: Genx7 (Panel Micom)

4. Block Diagram

Signal Processing Circuit (4) TH-P50S1/U1

<PCB Function>



IC3001
: Video Switch
(Audio Switch)

IC4503
: HDMI Switch

IC8001
: Seine3LV (Digital Video Processor)
LVDS Transmitter

IC1100
: SYSTEM MPU

IC9300
: PD3-H
LVDS Receiver,
Sub Field Processor,
Data Driver Processor
Plasma AI

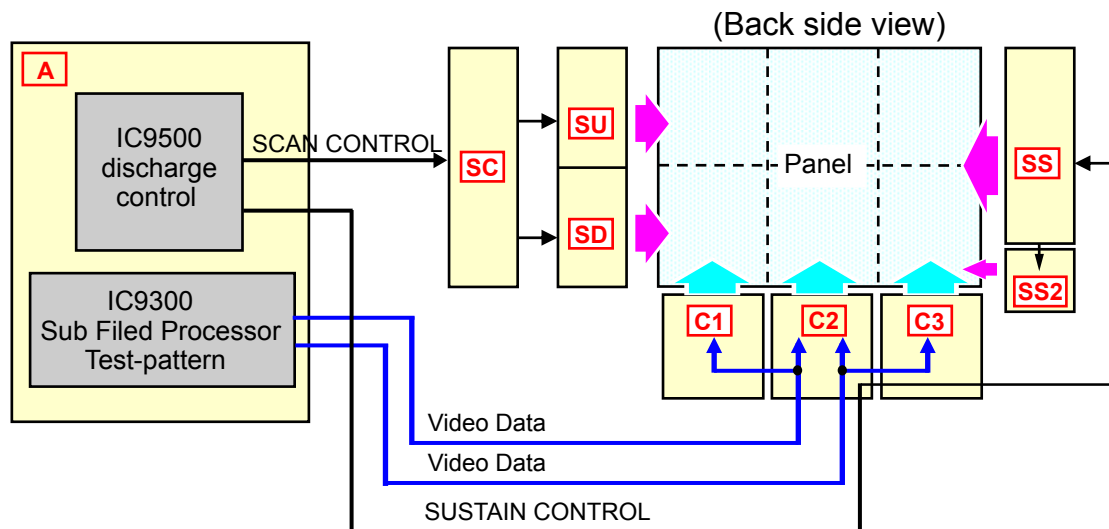
IC9500
: FPGA (Discharge Control)

IC9003
: Genx7 (Panel Micom)

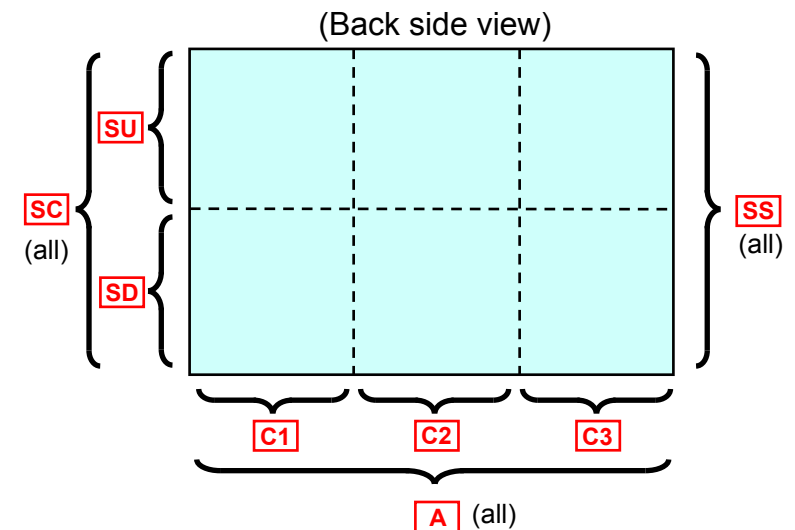
6. Troubleshooting (Full HD model)

We know the possible defective board by picture trouble area.

<Display device block diagram>



<Relation of defective board and picture trouble area >



* In case of TC-P54Z1, A change to DA

5.Troubleshooting for picture trouble

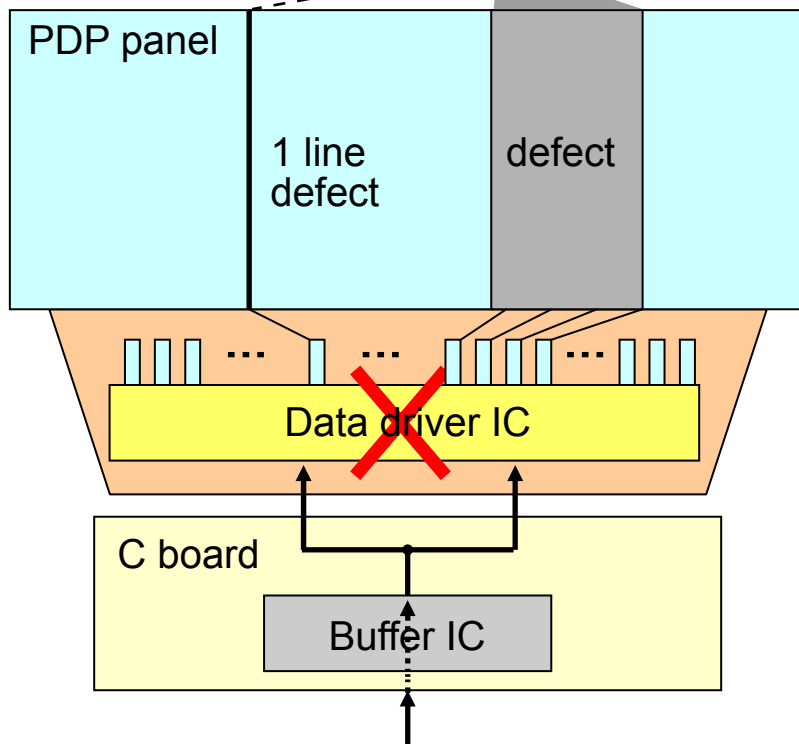
Picture trouble (diagnosis of vertical line)

PDP panel defective (Data driver IC defective)

Width is narrower than FPC

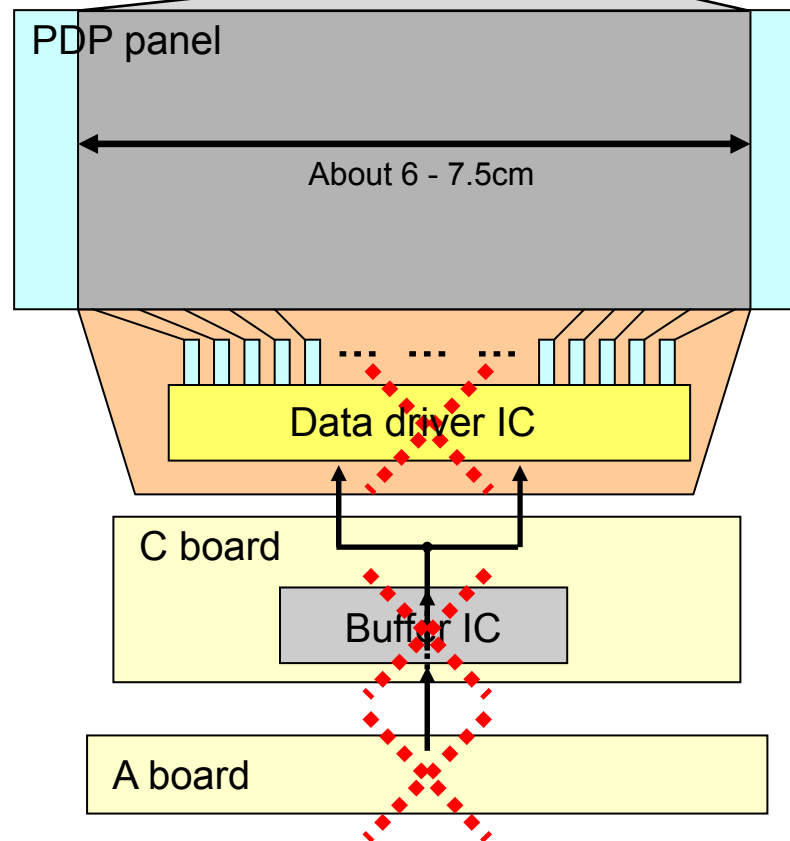


Data driver IC defect= PDP panel defect



Data driver IC or C or A board defective

Width is same as FPC



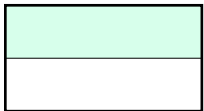





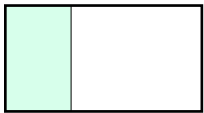





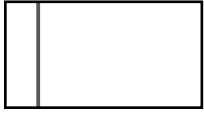





* In case of TC-P54Z1, A change to DA

5.Troubleshooting for picture trouble

Summary of picture trouble

< Some part of screen >

* In case of TC-P54Z1, A change to DA


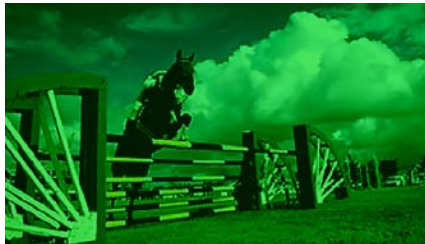



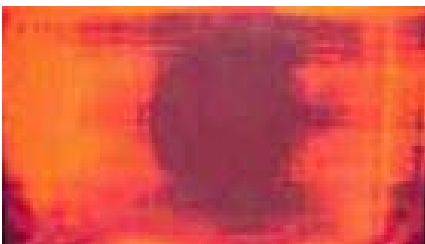

Symptom	Actual symptom	Defective board
Trouble at Upper or Lower half 	 	SU / SD board
Horizontal line (Upper or Lower side) 	 	SU / SD board or PDP panel
Trouble at Left or Center or Right part (42inch : Left or Right half) 	 	C1-C3 board (42inch : C1,C2)
Vertical line (Width is same as FPC) 	 	C or A board or PDP panel
Vertical line (Width is narrower than FPC) 	 	PDP panel
Regularly bar 	 	A board

5.Troubleshooting for picture trouble

Summary of picture trouble

< All area of screen >

* In case of TC-P54Z1, A change to DA

Symptom	Actual symptom		Defective board
Irregular Color			A board
All vertical line			A board
Abnormal electric discharge	 		SC / SS board

5.Troubleshooting for picture trouble

Diagnosis by Test Pattern

<Purpose>

Test pattern is helpful to find the defective parts.

For example, if we can see the picture problem at all over the screen (Picture Noise, Full Vertical Line, abnormal color), we can find signal processing problem or panel phosphor problem by using test pattern.

<Model>

Full HD Models (V10,G15,G10,S1,U1 series)

<Symptom>

Picture Noise, Full Vertical Line, abnormal color

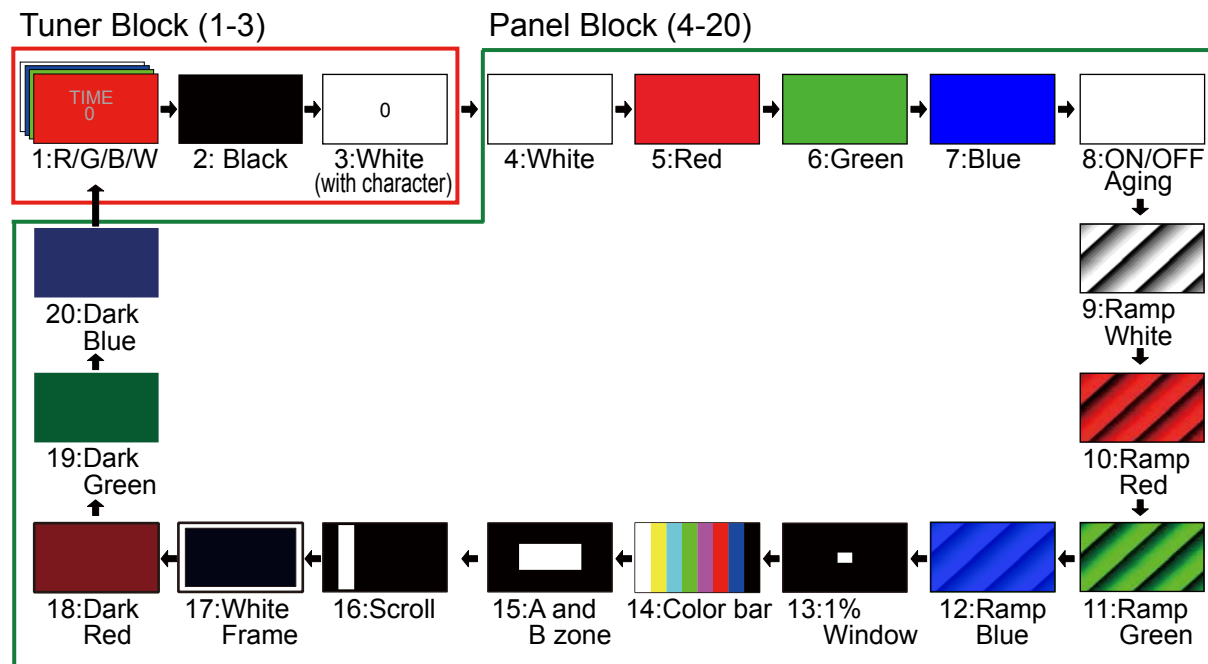
<How to enter the Test Pattern>

1. Press the “**VOLUME -**” on the TV set and push “**INFO**” button of remote controller 3 times at the same time.
2. After this procedure, you can enter “Service Mode” and select “**Aging**”, then “Test pattern” will appear.
3. Push “3” button of Remote Controller to select the test pattern mode to forward.
4. Push “4” button of Remote Controller to select the test pattern mode to reverse.

<Diagnosis>

How to diagnose by using test pattern

<Test Pattern (Normal)>



Abnormal picture
(Picture Noise, Full Vertical Line, abnormal color)

Test pattern (4-20)	Defective Block (Board)
Abnormal	Panel Block (A or C Board or Panel)
Normal	Tuner Block (A Board)

No picture

Test pattern	Defective Block (Board)
No picture	Panel Block (A or C Board or Panel)
O.K	Tuner Block (A Board)

5.Troubleshooting for picture trouble

Diagnosis by Test Pattern [TC-P54Z1] (1/2)

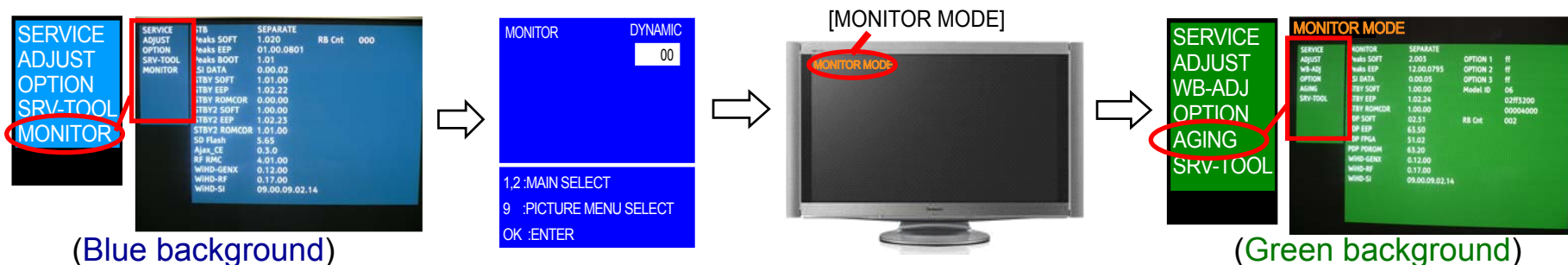
<Model> Full HD Models (TC-P54Z1)

<Symptom> Picture Noise, Full Vertical Line, abnormal color

<How to enter the Test Pattern>

Use RF Remote control.

1. Press the **VOLUME [-]** button of tuner box and push **[INFO]** button of RF remote control 3 times within 2 seconds.
 - Service mode of tuner box is displayed. (Blue background)
2. By 1 or 2 button, select **[MONITOR]** and press **[OK]** button.
3. **[MONITOR MODE]** will be displayed on the left-top of the screen and switch to service mode of display unit is completed.
4. Press **VOLUME [-]** button of Display unit + **[INFO]** button of RF remote control 3 times within 2 seconds.
 - Service mode of display unit is displayed. (Green background)
5. After this procedure, you can enter "Service Mode" and select "Aging", then "Test pattern" will appear.
6. Push "3" button of Remote Controller to select the test pattern mode to forward.
7. Push "4" button of Remote Controller to select the test pattern mode to reverse.

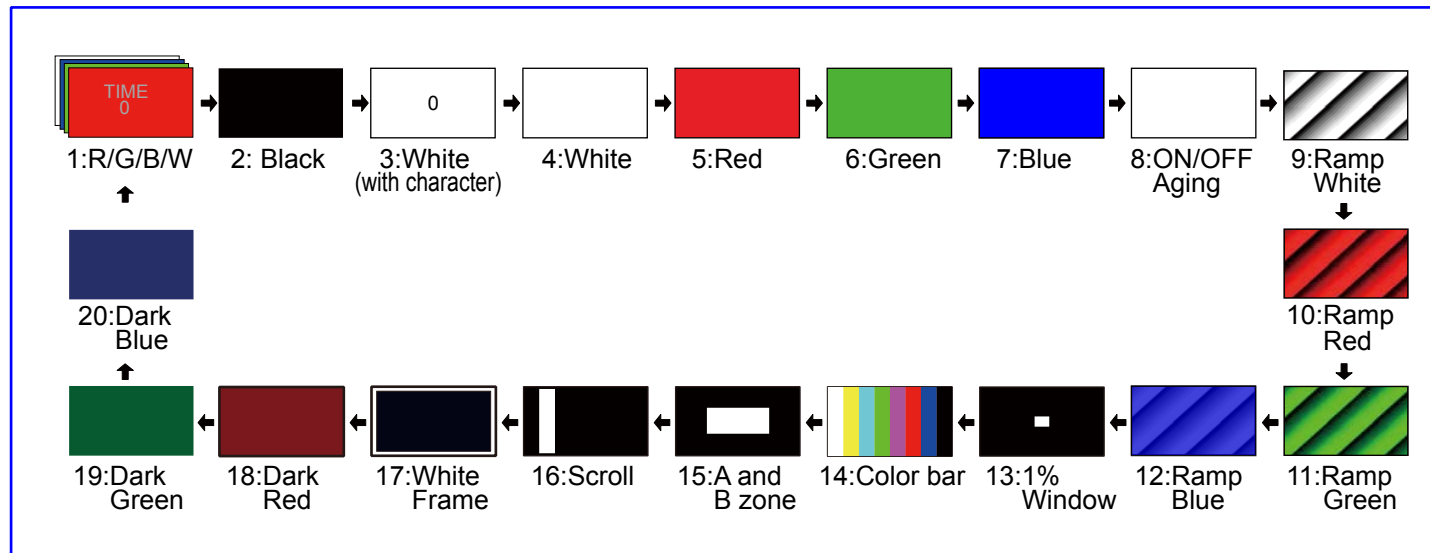


Use IR Remote control.

1. Press the **VOLUME [-]** button of the display unit and push **[INFO]** button of IR remote control 3 times within 2 seconds.
2. After this procedure, you can enter "Service Mode" and select "Aging", then "Test pattern" will appear.
3. Push "3" button of Remote Controller to select the test pattern mode to forward.
4. Push "4" button of Remote Controller to select the test pattern mode to reverse.

(Next page)

<Test Pattern (Normal)>



<Diagnosis>

How to diagnose by using test pattern

Abnormal picture
(Picture Noise, Full Vertical Line, abnormal color)

Test pattern (4-20)	Defective Block (Board)
Abnormal	Display unit (DA or C Board or Panel)
Normal	Tuner Box (A or DH Board)

No picture

Test pattern	Defective Block (Board)
No picture	Display unit (DA or C Board or Panel)
O.K	Tuner Box (A or DH Board)

<How to exit>

Disconnect the AC cord of the tuner box and display unit from the wall outlet.
(To power off both tuner box and display unit is necessary.)

7. Important information (for TC-P54Z1)

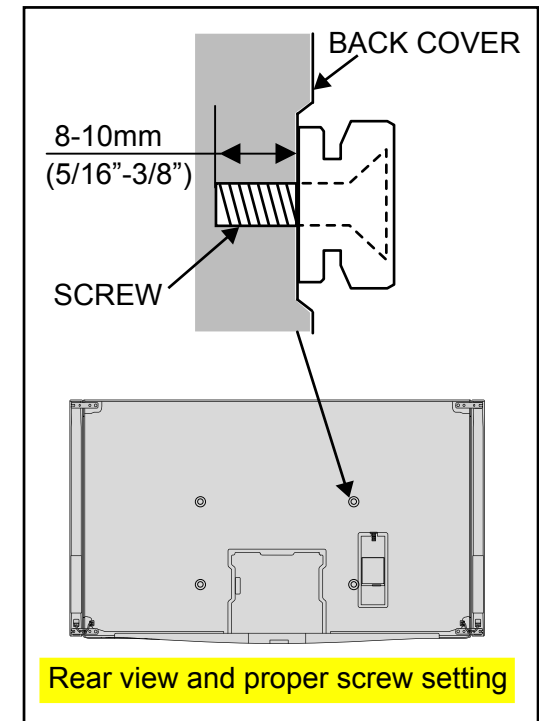
WARNING

When installing a wall mounting bracket to the TC-P54Z1 panel,
DO NOT insert the mounting bolts more than 3/8" (10 mm) past the back cover.

The panel will be damaged if the bolt is inserted more than 3/8" (10 mm) past the back cover.

However, the mounting screw must be at least 5/16" (8 mm) past the back cover to prevent unstable wall-mounting.

Damages caused by improper wall-mounting procedures will not be covered under the warranty.

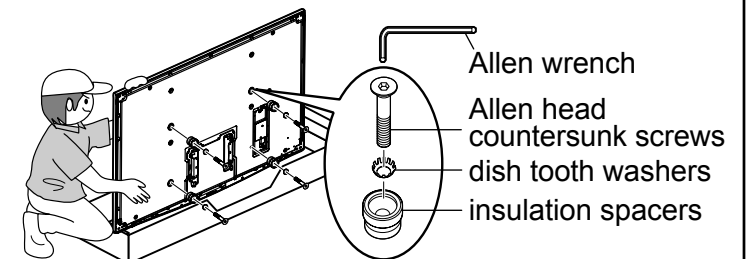


NOTICE

We recommend using Panasonic's wall-mounting bracket, TY-WK5P1SW.

To install Panasonic's wall-mounting bracket (TY-WK5P1SW) :

- 1) Use the supplied Allen wrench and mount the 4 Allen head countersunk screws, 4 dish tooth washers, and 4 insulation spacers provided at the locations where the caps were attached, as shown in right figure.
- 2) Tightening torque: 2.2 - 3 lb-ft (3 – 4 Nm).



How to tighten the screws

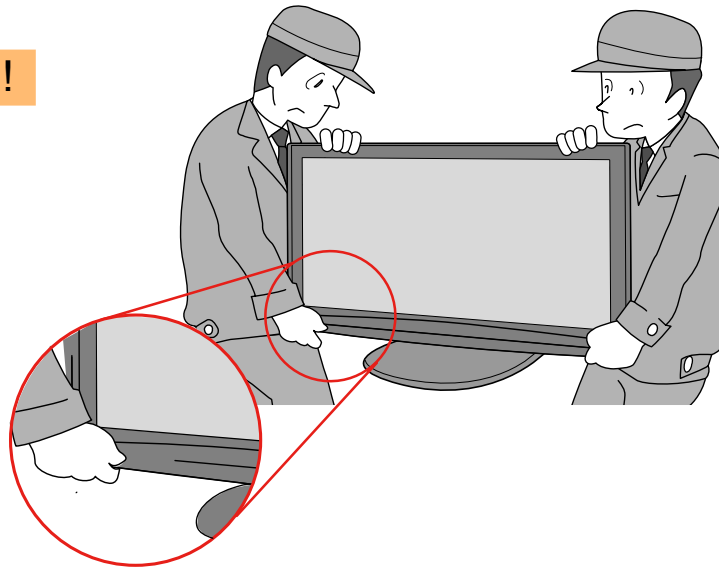
There is No front glass by the front glass-less construction.

1. Wound on the surface of display panel

By carefullness handling,
there is the possibility that the wound and dirt attach to display surface.

Pay attention to panel when installation, transportation and movement.

Handle with two persons !



2. Damage on the surface of display panel

By impact, there is the possibility that display surface is damaged.

Do not give impact on display surface.

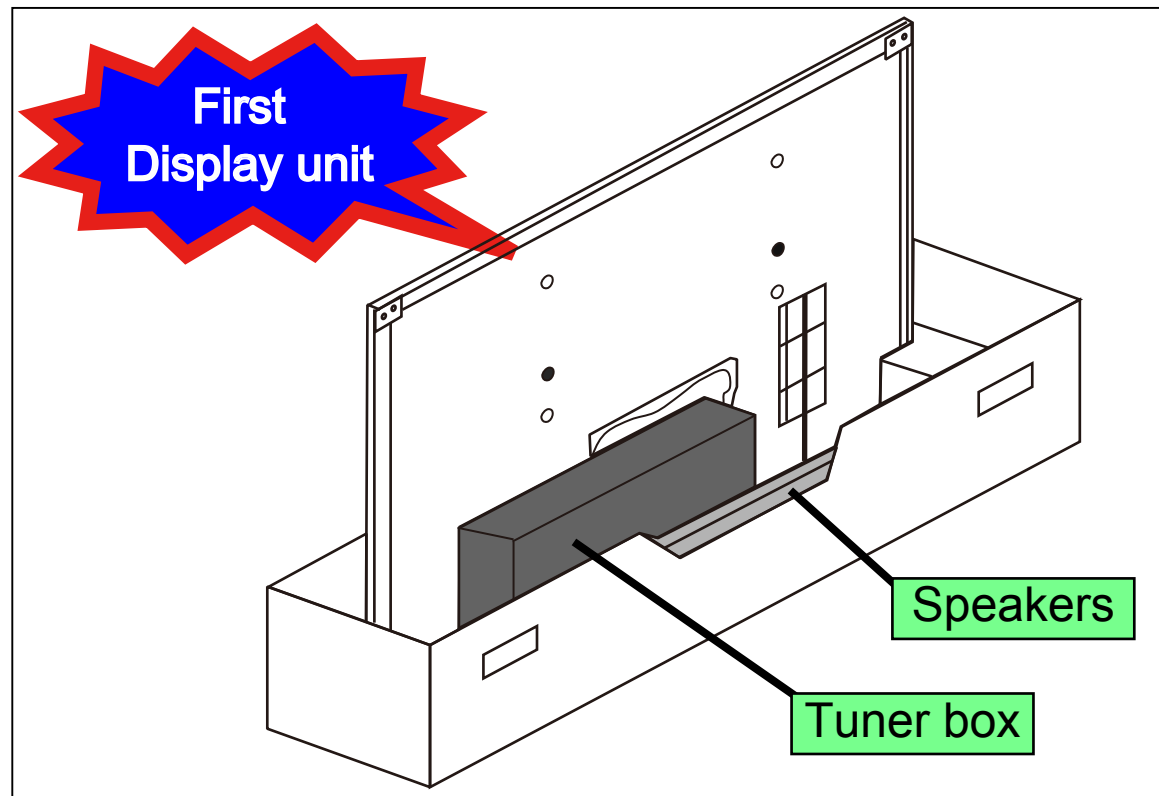
Display unit, tuner box and speakers are in the same box.

When opening box and taking out.

1. First, take display unit.

2. Next, take tuner box and speakers.

If speakers and tuner box are taken first, display will fall down.



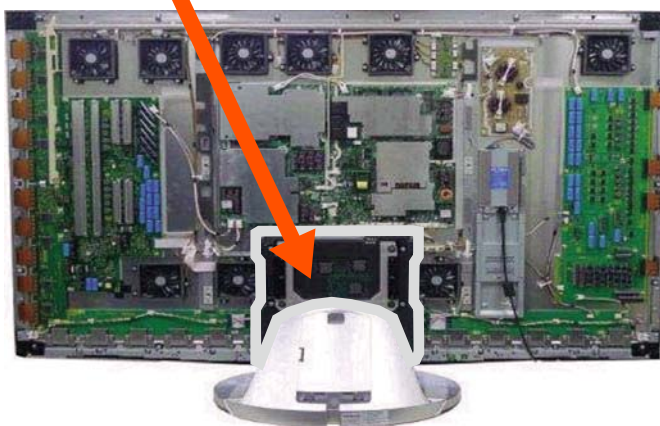
5.Important information (for TC-P54Z1)

Rear cover of this display unit is composed of 2 covers.

Rear cover (Large)



Rear cover (small)



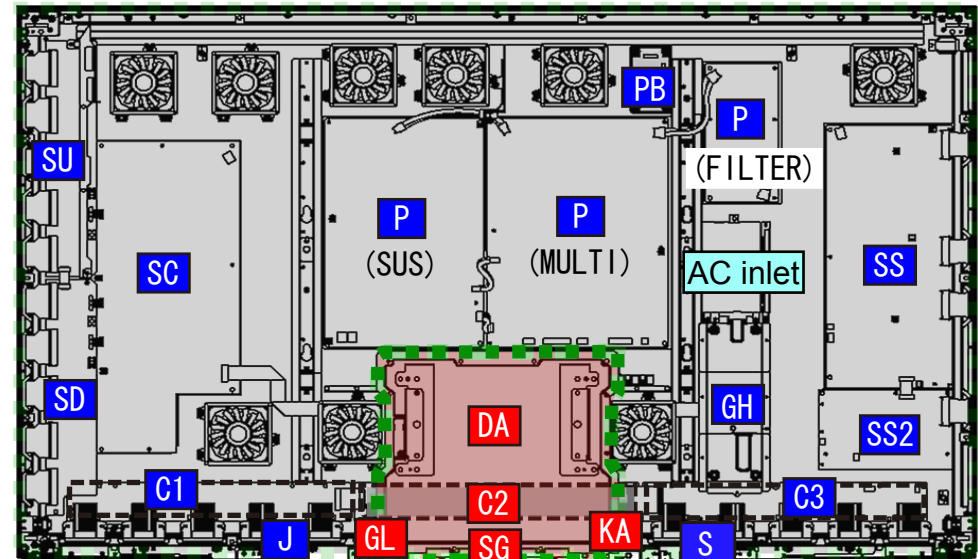
When removing panel module , both of large and small rear covers and wall-mounting bracket , lay soft cloth, lay display unit on it and work.

Raer cover [TC-P54Z1]

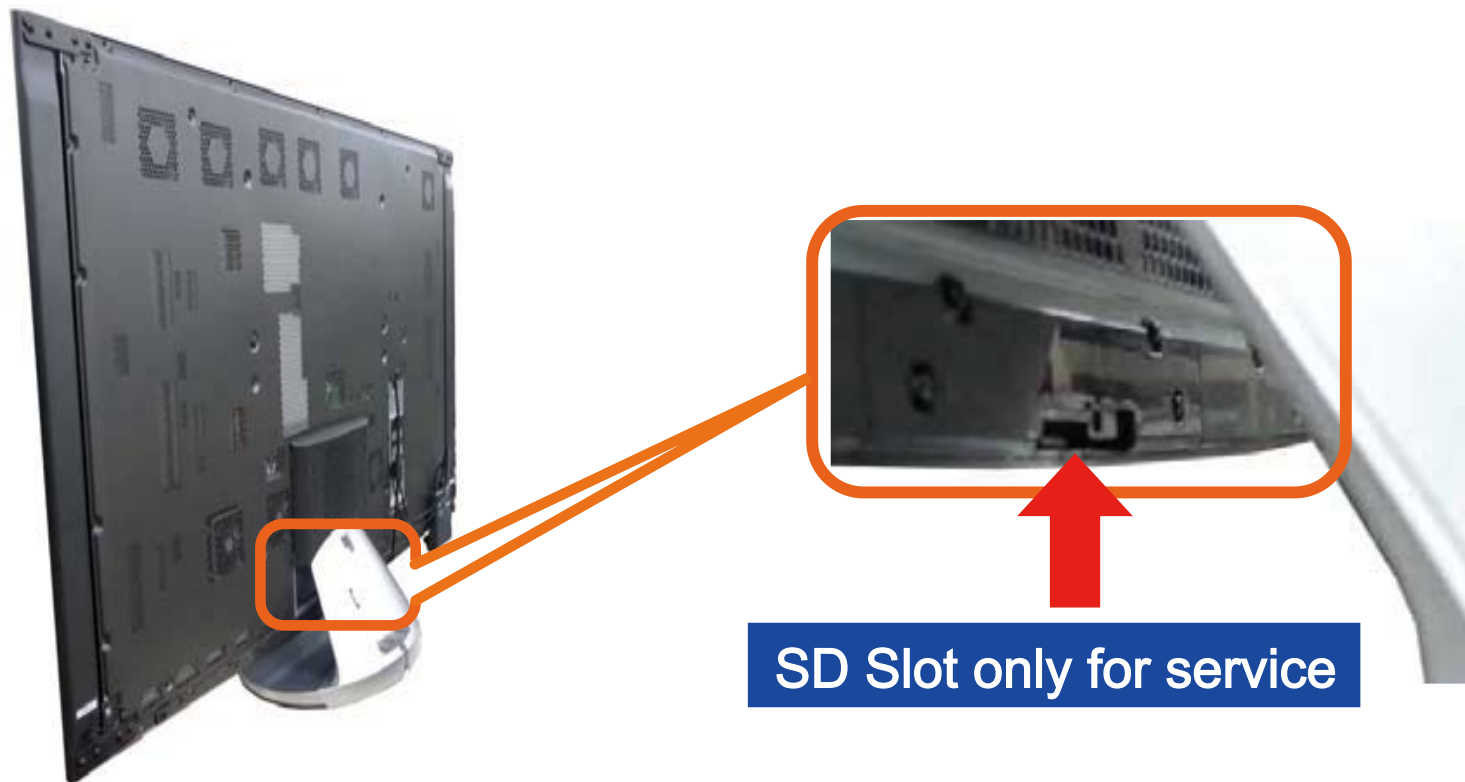
Number of rear cover depends on removing module.
See the following table.

Rear cover	Module
Remove the large rear cover only (with stand)	SC, SU, SS, SS2, SD, C1, C3, P, PB, GH, J, S, FAN, AC inlet
Remove the large rear cover and small rear cover (with laying on a floor)	PANEL, GL, DA, C2, KA, SG

<PCB Location>



At the back of Display unit, there is SD card slot for service.
Only for software version-up, this SD card slot is used.



This jig is useful for standing and holding the PDP unit securely in the case of servicing.

<Service jig>

Part No.	TZSA07019
Size	W : 28" (700mm), H : 38" (950mm), D : 24" (600mm)
Display Size	32" - 65"
Weight	about 5 kg



Only Service stand



Service stand with display unit

This is unusable for replacement of plasma panel and escutcheon.

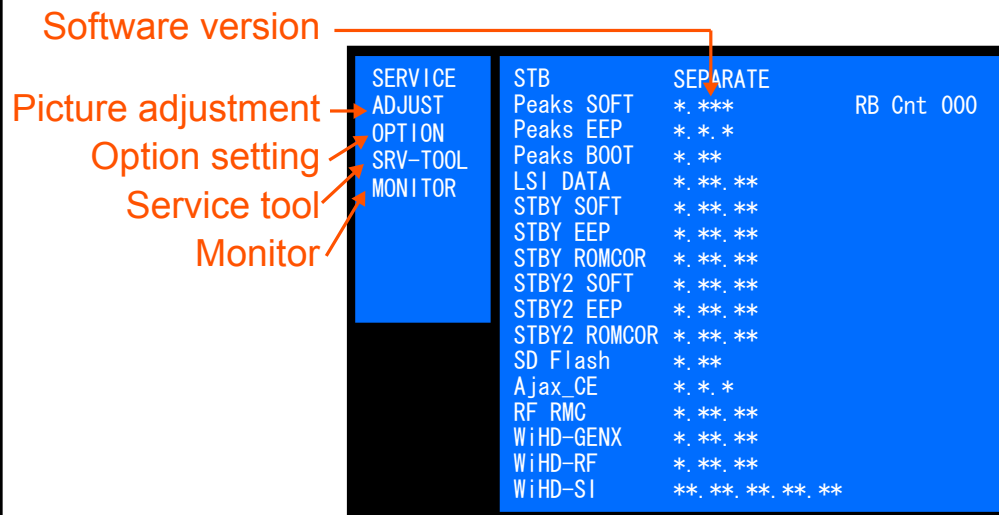
Tuner box and display unit have their respective service mode.

<Tuner box>

1. How to enter into Service Mode (Use RF Remote control.)

While pressing VOLUME [-] button of tuner box, press [INFO] button of RF remote control 3 times within 2 seconds.

Display screen (Blue background)



Key command

“1” button --- Main items Selection in forward direction
 “2” button --- Main items Selection in reverse direction
 “3” button --- Sub items Selection in forward direction
 “4” button --- Sub items Selection in reverse direction
 “VOL” button --- Value of sub items change in forward direction (+), in reverse direction (-).

2. How to exit : Disconnect the AC cord of tuner box and display unit from the wall outlet.

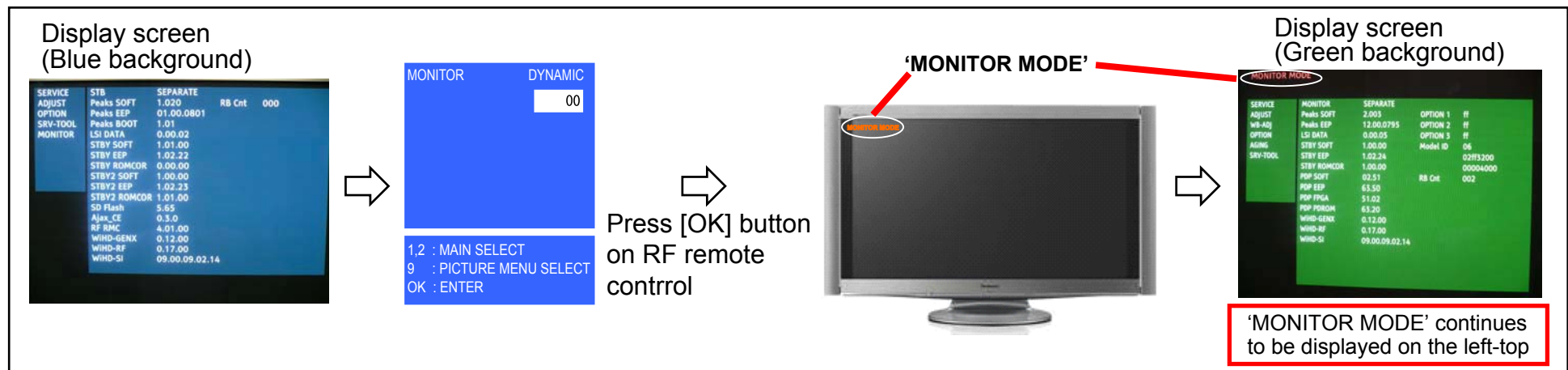
<Display unit>

Only tuner box has a receiver for RF remote control.

The function to switch to the service mode of display unit is added to that of tuner box so that RF remote control is available to use service mode of display unit.

1. How to enter into Service Mode (Use RF Remote control.)

- 1) While pressing VOLUME [-] button of tuner box, press [INFO] button of RF remote control 3 times within 2 seconds. Service mode of tuner box is displayed. (Blue background)
- 2) By 1 or 2 button, select [MONITOR] and press [OK] button.
- 3) [MONITOR MODE] will be displayed on the left-top of the screen and switch to service mode of display unit is completed.
- 4) While pressing VOLUME [-] button of display unit, press [INFO] button of RF remote control 3 times within 2 seconds. Service mode of display unit is displayed. (Green background)



2. How to exit : Disconnect the AC cord of the tuner box and display unit from the wall outlet. (To power off both tuner box and display unit is necessary.)

<Display unit (Single mode)>

IR remote receiver is installed in display unit.

Service mode of display unit can be displayed by using IR remote control.

1. How to enter into Service Mode (Use IR Remote control)

While pressing VOLUME [-] button of display unit, press [INFO] button of IR remote control 3 times within 2 seconds. Service mode of display unit is displayed. (Green background)

Display screen
(Green background)

SERVICE	MONITOR	STAND ALONE	
ADJUST	Peaks SOFT	*, **, *	OPTION 1 **
WB-ADJ	Peaks EEP	*, **, *	OPTION 2 **
OPTION	Peaks BOOT	*, **, *	OPTION 3 **
AGING	LSI DATA	*, **, **	Model ID **
SRV-TOOL	STBY SOFT	*, **, **	*****
	STBY EEP	*, **, **	*****
	STBY ROMCOR	*, **, **	RB Cnt 000
	PDP SOFT	*, **, *	
	PDP EEP	*, **, *	
	PDP FPGA	*, **, *	
	PDP PDROM	*, **, *	
	WiHD-GENX	*, **, **	
	WiHD-RF	*, **, **	
	WiHD-SI	*, **, **, **, **	

STAND ALONE

'MONITOR MODE' is NOT displayed on the left-top of the screen.

2. How to exit : Disconnect the AC cord of display unit from the wall outlet.

<Tuner Box>

Use RF Remote control.

1. How to access Self check indication only:

Press volume [-] button of tuner box and [OK] button of RF remote control at the same time for more than 3 seconds.

Self check indication and factory shipping setting:

Press volume [-] button of tuner box and [MENU] button of RF remote control at the same time for more than 3 seconds.

2. Screen display & Check Point

Display screen (Blue background)



Confirm the following parts if NG was displayed.

Display	Ref.No.	Description	P.C.B
PEAKS	IC8001	Peaks AVC	A-Board
TUN1	TU8300	TUNER (PLL block)	A-Board
TUN2	TU8300	TUNER (MTS block)	A-Board
FE	IC8300	FRONT END PROCESSOR	A-Board
AVSW	IC3001	AUDIO/VIDEO SW	A-Board
ADV	IC4510	ADV7471(ADV7496)	A-Board
ADAV	IC4510	SDV7471(ADAV4622)	A-Board
GenX	IC1100	SYSTEM MOU	A-Board
MEM1	IC1101	EEPROM (SYSTEM MPU)	A-Board
MEM2	IC8502	EEPROM (Peaks)	A-Board
MEM3	IC1501	EEPROM (CEC)	A-Board
TEMP	IC4701	TEMP SENSPR	A-Board
GC6	IC5100	GC6	A-Board
Genx2	IC1500	SYSTEM MPU CEC	A-Board
KYOTO	IC9005	KYOTO	DH-Board
HDMITx	IC9004	HDMI Tx	DH-Board
RERMC	IC7002	RF REMOTE CONTROL	RM-Board

3. How to exit : Disconnect the AC cord of display unit from the wall outlet.

<Display unit>

Use RF Remote control. [After setting to Monitor Mode (Please refer to page 35.)]

1. How to access Self check indication only:

Press volume [-] button of tuner box and [OK] button of RF remote control at the same time for more than 3 seconds.

Self check indication and factory shipping setting:

Press volume [-] button of tuner box and [MENU] button of RF remote control at the same time for more than 3 seconds.

2. Screen display & Check Point

Display screen (Green background)



Confirm the following parts if NG was displayed.

Display	Ref.No.	Description	P.C.B
ADV	IC24510	ADV7471(ADV7496)	DA-Board
ADAV	IC24510	ADV7471(ADAV4622)	DA-Board
GenX	IC21100	SYSTEM MPU	DA-Board
MEM1	IC21101	EEPROM (SYSTEM MPU)	DA-Board
MEM2	IC28502	EEPROM (Peaks)	DA-Board
PANEL	IC29003	PANEL MICOM	DA-Board
TEMP	IC21000	TEMP SENSOR	DA-Board
GC6	IC25100	GC6	DA-Board

When there is picture problem, information from tuner unit is not displayed.
At that time, by using IR remote control, self check of display unit can be done.

By IR Remote control (Display unit unique mode):

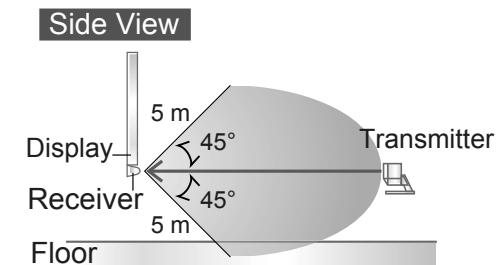
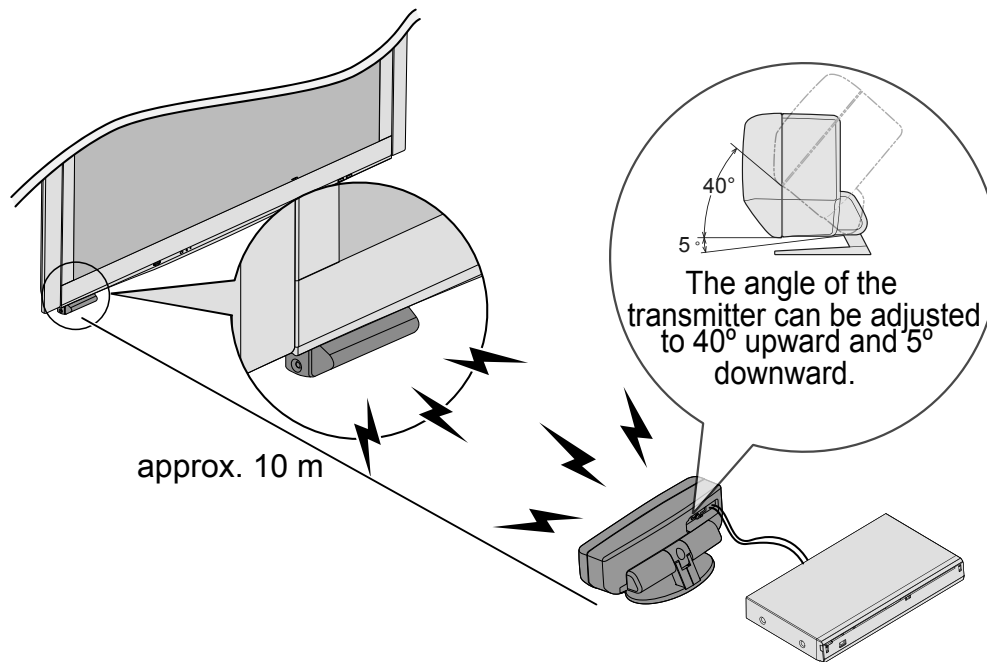
Press volume [-] button of display unit and [OK] or [MENU] button of IR remote control at the same time, then self check (green color) is displayed. (MONITOR is not shown at left top.)

3. How to exit : Disconnect the AC cord of display unit from the wall outlet.

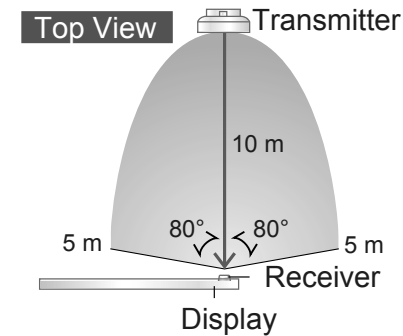
<Transmission Range>

Use the Wireless Unit (Transmitter) within a straight line distance of 10 m (approx.) from the Wireless Unit (Receiver).

The range may be shortened if there are any obstacles or the surrounding environment or building structure affects the transmission.



[Vertical Direction]



[Horizontal Direction]

<DO not install the following places>

High temperature location (near the heater etc)
Poor air circulation place (at the end of a closed rack etc)

<When the wireless connection becomes off>

When the wireless connection between transmitter and receiver becomes OFF, error message (like below) will appear.
Check the connection between transmitter and receiver.

No signal from the tuner box.

Please check the connection of both wireless units.

Also, please make sure the wireless transmitter and receiver are directly facing each other and no object is blocking their communication path.



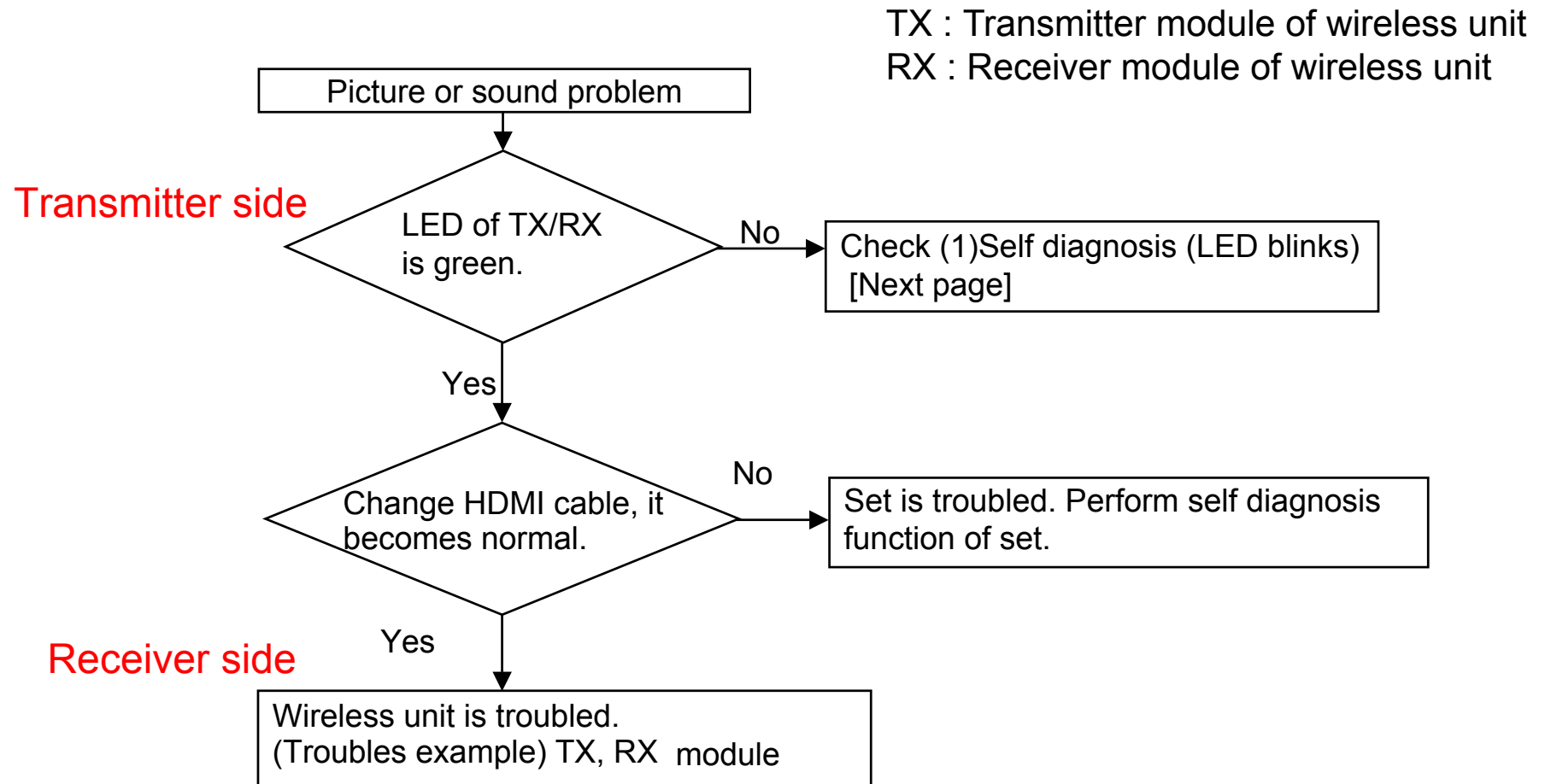
Receiver



Transmitter

<When Full HD wireless unit is connected>

This is the flow for troubleshooting of wireless unit.



<Self check for wireless unit>

TX : Transmitter module of wireless unit

RX : Receiver module of wireless unit

Transmitter side

LED	Status	Trouble example
Green ON	Radio wave condition is Good. (Normal condition)	—
Orange ON	Radio wave condition is bad.	Check environment of equipments TX/RX module
Red ON	HDMI is not connected.	Check environment of equipments TX/RX module
Red Blinks 2 times	Pairing failure	TX/RX module
Red Blinks 11 times	Fan problem	Fan (TX side)

Receiver side

LED	Status	Trouble example
Green ON	Radio wave condition is Good. (Normal condition)	—
Orange ON	Radio wave condition is bad.	Check environment of equipments TX/RX module
Red ON	HDMI is not connected.	Check environment of equipments TX/RX module
Red blinks 11 times	Fan problem	Fan (RX side)

<First registration after purchase>

To have Z1 model work, registration of RF remote control to the tuner box is required.

[How to register]

1. After power-on, a registration screen is displayed. (Fig.1)
2. Press [MENU] key on the tuner box.
3. Press the [OK] button and the [1] button on RF remote control simultaneously for at least 3 seconds. (Fig.2)

Note that registration may take 30 seconds.

4. When a screen of [Remote control registration completed] is displayed, press [OK] button and proceed to the next setting (Easy installation setting). (Fig.3)

The maximum numbers of RF remote controls to be registered is five.

- When registering an additional RF remote control exceeding five, to erase all the RF remote controls which were already registered is required.
- When erasing an RF remote control to be registered, all the registered ones are erased.
- Erasing only one to be registered is not allowed.

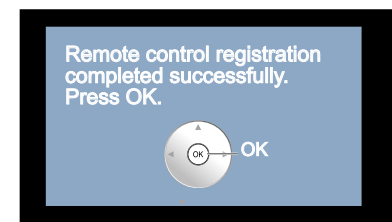
Fig.1



Fig.2



Fig.3



<Additional registration>

Additional RF remote control registration is required to start to use a new RF remote control because of failure etc.

Display “Remote control registration” by pressing MENU key of the tuner box for 5 seconds.

[How to register]

1. Select [Setup] by VOL [+] key of a tuner box and press [MENU] key.
2. [Remote control registration] should be selected. Press [MENU] key.
3. Press [MENU] key of a tuner box.
4. Press [OK] button and [1] button simultaneously for at least 3 seconds.

Note that registration may take 30 seconds.

5. When a screen of [registration completed] is displayed, press [Return] button to finish registration.

If you fail in a remote control registration

1. Power on the tuner box again (AC Plug in again or press [POWER] button for at least 5 seconds) and press [MENU] key on the tuner box for 5 seconds.
2. Then, please register again.

If an old battery is used, remote control registration would be unsuccessful.
Please use a new battery.

<RF remote control Usage Notes >

VIERA Link buttons

Because this remote control is RF remote control, it cannot send remote control code directly to DIGA like a conventional IR remote control.

VIERA Link buttons on RF remote control is effective only when VIERA Link-compatible DIGA is connected with HDMI.

TV operation keys on DIGA remote control

TV operation keys on a DIGA remote control, which is based on IR method, are effective without registration to the tuner unit.

A receiver for IR remote control is placed on a display unit.
Please point DIGA remote control at the display unit and operate.

Precautions for RF remote control

To prevent bad influence by interference of microwaves, use RF remote control keeping it away from the following equipments.

Microwave oven , Wireless LAN equipment , Bluetooth-compatible equipment
Equipments which use microwave of 2.4GHz band (Digital cordless phone,
Wireless audio equipment, Game machine, Personal computer peripherals)

5.Important information (for TC-P54Z1)

Exchange of the modules

<Exchange of TX/RX module and RF remote control module>

In TX module, RF remote control module is included.

When TX and RX are exchanged, RF remote control is also changed.

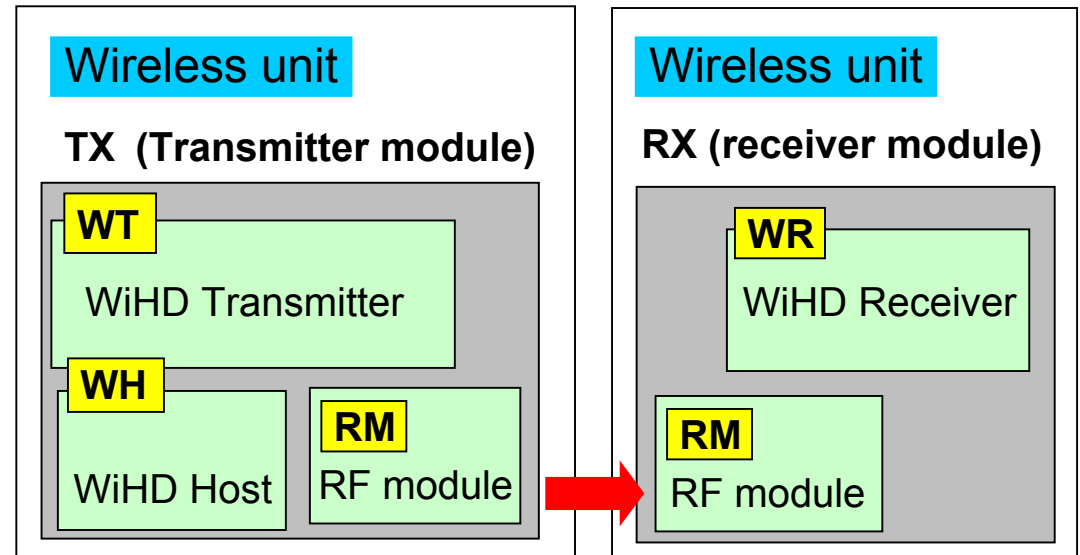
So, when they are exchanged, pairing becomes off and communication does not work.

So, when RF remote control is operated, ON signal from TX to RX does not pass.

So, to solve it, re-pairing is necessary.

TX : Transmitter module of wireless unit

RX : Transmitter module of wireless unit



[How to re-pairing]

1. After exchanging TX and RX modules were exchanged, connect TX and RX to tuner unit and display unit, respectively.
2. Power tuner unit ON by the power button.
Power display unit ON by the power button.
TX and RX becomes ON.
3. Between TX and RX, HDMI connection is established. HDMI picture appears.
4. When HDMI is connected, re-pairing between TX and RX modules are done, automatically.